Liebert[®] EFC Indirect Evaporative Freecooling System: Setting Records for Thermal Performance



Colocation and cloud hosting data center managers are seeking cooling solutions that help them save money, reduce risks and make it easier to manage their facilities. With the Liebert[®] EFC 400kW system, Vertiv[™] has taken freecooling innovation to the highest level, setting new records for cooling performance.

Advanced Controls Highly Efficient Heat Exchanger Teamwork algorithms Air leakage less to coordinate operation than 0.1%, greatly of multiple units for reducing need for maximum efficiency extra capacity for and protection makeup air Self-healing control VERTIV Up to 85% effective heat routines to avoid transfer in dry mode for reaching dangerous less annual thresholds water consumption Cost saving advanced control algorithms Liebert' EFC Mechanical PUE as low that automatically selects the best as 1.03 combination of water and electricity usage based on input costs Cooling to within 3 degree of wet bulb Independent control temperature to maximize of capacity and economization hours and temperature for minimize or eliminate optimal annual the need for effciency mechanical refrigeration

Fun Facts About The Liebert EFC



Total area of the enhanced heat exchanger surface of the Liebert EFC, which helps to drive its efficiency **26,000 square feet – more area than five professional basketball courts**

Amount of air saved over the 10-year life of a 1 MW data center thanks to lower air leakage, compared to air loss by a heat wheel. **Enough to fill about 15,500 Goodyear**[®] **blimps**



Energy savings from lower air leakage of the Liebert EFC, compared to a heat wheel, for a 1 MW data center at 8 cents/kWh (due to lower fan energy and lower make-up air). **\$13,600 or 14% of total operating budget**





Annual amount of CO₂ saved by not having to add capacity to make up for leaked air **96 tons**



20

Number of average-sized autos producing the amount of CO2 saved annually by the Liebert EFC

For more information visit www.VertivCo.com

© 2017 Vertiv Co. All rights reserved. Vertiv, the Vertiv logo and Vertiv are trademarks or registered trademarks of Vertiv Co. All other names and logos referred to are trade names, trademarks or registered trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness herein, Vertiv Co. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications are subject to change without notice. (R11/17)